



10/688182

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Google Inc.

Application No./Patent
No./Control No.: 7,315,930 Filed/Issue Date: January 1, 2008

Entitled: METHOD OF SELECTING HEURISTIC CLASS FOR DATA PLACEMENT

Google Inc., a **Corporation**
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
 - an assignee of less than the entire right, title and interest.

in the patent application/patent identified above by virtue of either:

- A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded against the parent application number _____ in the United States Patent and Trademark Office at Reel _____ Frame _____ or a true copy of the original assignment is attached.

OR

- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Karlsson et al To: Hewlett-Packard Development Company
The document was recorded in the United States Patent and Trademark Office at
Reel 014168 Frame 0838, or for which a copy thereof is attached.

2. From: Hewlett-Packard Development Company To: Google Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel , Frame , or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.
[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO.
See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

 Signature
Mark J. Stevenosky, Jr.
Printed or Typed Name
Attorney
Title
4/20/2022 Date
(908) 654-5000
Telephone Number



PTO/SB/80 (11-08)

Approved for use through 11/30/2011. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

Practitioners associated with the Customer Number: 78792
OR

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

(Redacted) agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

The address associated with Customer Number: 78792

OR

<input type="checkbox"/> Firm or Individual Name				
Address				
City		State	Zip	
Country		Telephone	Email	

Assignee Name and Address:

Google Inc.
1600 Amphitheatre Parkway
Mountain View, California 94043

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

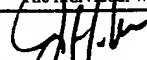
Signature		Date November 30, 2011
Name	Donald Harrison	Telephone 650 743 0260
Title	VP, Deputy General Counsel, Assistant Secretary	



Exhibit B

ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

WHEREAS, Hewlett-Packard Development Company, L.P., a limited partnership established and existing under the laws of the State of Texas and having its registered place of business at 20555 S.H. 249 Houston, Texas 77070, U.S.A. and Hewlett-Packard Company, a corporation organized and existing under the laws of the State of Delaware and having its principal place of business at 3000 Hanover Street, Palo Alto, California 94304, U.S.A. (collectively "HP") are the owners of record, either individually or collectively, of the Assigned Patents (as defined below);

WHEREAS, Google Inc. ("Purchaser"), a corporation duly organized and existing under and by virtue of the laws of Delaware and having a place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043 is desirous of acquiring the entire interest in and to the Assigned Patents (as defined below);

WHEREAS, HP and Purchaser have entered into a Patent Purchase and Sale Agreement for certain patents and patent applications dated October 26, 2011 ("Purchase and Sale Agreement") wherein HP has agreed to sell and Purchaser has agreed to purchase the Assigned Patents subject to all prior encumbrances and licenses;

WHEREAS, Purchaser has agreed and covenanted in said Purchase and Sale Agreement to license back to HP certain rights under the Assigned Patents, as set forth in Sections 6.1.2 and 7.2 thereof, as a condition of and as part of the consideration for the Parties entering into the Purchase and Sale Agreement;

WHEREAS, this Assignment is made by HP subject to and contingent upon Purchaser concurrently providing to HP a grant-back license to the Assigned Patents and upon Purchaser and its Affiliates making certain covenants not to sue or assert the Assigned Patents, in accordance with the Purchase and Sale Agreement; and

WHEREAS, for the purpose of this Assignment, the following terms, whether in singular or in plural form, when used with a capital initial letter shall have the respective meanings as follows.

"Affiliate" means with respect to any person, any other Person that directly, or indirectly through one or more intermediaries, controls, is controlled by, or is under the common control of the Person in question; provided, however, that in any country where the local law or regulation does not permit foreign equity participation of more than fifty percent (50%), an "Affiliate" shall include any Person in which the Person in question owns or controls, directly or indirectly, the maximum percentage of such outstanding stock or voting rights permitted by such local law or regulation. For purposes of the foregoing, "control," including the terms "controlling," "controlled by" and "under common control with," means the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of a Person, whether through the ownership of voting securities,

by contract or otherwise.

"Assigned Patents" means the issued patents and patent applications listed in Appendix A of this Assignment.

"Encumbrances" means any commitments, licenses or other rights relating to any of the Assigned Patents, whether express, implied or otherwise, that are made, entered into or granted by, or that arise from the actions taken by, HP, any current or former Affiliate of HP, or any Person, prior to the Effective Date including, but not limited to, the commitments, licenses and rights described in Sections 5 and 6.1 of the Purchase and Sale Agreement.

"Person" means any natural person, corporation, company, partnership, association, sole proprietorship, trust, joint venture, non-profit entity, institute, governmental authority, trust association or other form of entity not specifically listed herein including, without limitation, HP or any of its Affiliates, or Purchaser or any of its Affiliates.

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration to HP in hand paid, the receipt of which is hereby acknowledged, HP has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over unto said Purchaser, subject to all Encumbrances, its whole right, title, and interest in and to all of the Assigned Patents, said whole right, title, and interest in and to said Assigned Patents including all past, present, and future causes of action and claims for damages derived by reason of patent infringement thereof (to the extent such damages are not already paid, awarded or contractually owed to HP, its Affiliates or any predecessor of HP or HP's Affiliates), for said Purchaser's own use and for the use of its assigns, successors, and legal representatives to the full end of the term of each of the Assigned Patents. For clarity, the foregoing assignment does not include (i) any trademarks, trade dress, trade names, or other indicia of origin; (ii) except for inventions of the Assigned Patents, any inventions or discoveries, whether patentable or not, and registrations, invention disclosures, patents and applications therefor; (iii) any trade secrets, confidential information or know-how; (iv) any works of authorship, whether copyrightable or not; and (v) any other intellectual property or proprietary rights of HP, its Affiliates or any predecessor of HP or HP's Affiliates.

In Testimony Whereof, HP by its fully authorized representatives has executed this Assignment as of the dates indicated below.

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.

By: HPQ Holdings, LLC, its General Partner

By: Bruce Ives Date: 25 Oct 2011
Bruce Ives, Manager
HPQ Holdings, LLC

HEWLETT-PACKARD COMPANY

By: Charles Bond Chapman IV Date: 25 Oct 2011
Charles Bond Chapman IV
Vice President, Intellectual Property Licensing
Hewlett-Packard Company

Appendix A of Exhibit B: List of Assigned Patents

United States Patents and Patent Applications

No.	Country	Patent No.	App No.	Title	Status
1	US	5235642	07/917767	Access Control Subsystem And Method For Distributed Computer System Using Locally Cached Authentication Credentials	Granted
2	US	5268962	07/917870	Computer Network With Modified Host-To-Host Encryption Keys	Granted
3	US	5519832	08/386253	Method and apparatus for displaying module diagnostic results	Granted
4	US	5534855	08/358040	Method and system for certificate based alias detection	Granted
5	US	5623527	08/593105	Method and apparatus for determining an integer power of a floating point number	Granted
6	US	5740357	08/329800	Generic fault management of a computer system	Granted
7	US	5767923	08/660354	Method and System for Detecting Cuts in a Video Signal	Granted
8	US	5778350	08/566429	Data collection, processing, and reporting system	Granted
9	US	5787209	08/596800	Method Of Filtering Images Using Image Compressibility To Determine Threshold Parameter	Granted
10	US	5794242	08/835553	Temporally and spatially organized database	Granted
11	US	5799286	08/488003	Automated Activity-Based Management System	Granted
12	US	5819066	08/608070	Application and method for benchmarking a database server	Granted
13	US	5819282	08/682220	Database generator	Granted
14	US	5825364	08/634480	System and Method for Constructing a Three Dimensional Model from Two Dimensional Images Using Poissan Probability	Granted
15	US	5835724	08/674954	System and Method for Communication Information Using the Internet	Granted
16	US	5850227	08/771755	Bit map stretching using operand routing and operation selective multimedia extension unit	Granted
17	US	5864338	08/717037	System and Method for Designing Multimedia Applications	Granted
18	US	5864483	08/693840	Monitoring of Service Delivery or Product Manufacturing	Granted
19	US	5867606	08/909680	Apparatus And Method For Determining The Appropriate Amount Of Sharpening For An Image	Granted
20	US	5870092	08/765805	Page Turning Facility	Granted
21	US	5881239	08/924466	Network system with resilient virtual fault tolerant.	Granted
22	US	5896131	08/846984	Video raster display with foreground windows that are partially transparent or translucent	Granted

23	US	5898835	08/698614	System and Method for Remotely Executing a Command	Granted
24	US	5898931	08/694011	Base Station For A Telecommunications System	Granted
25	US	5978574	08/964811	Formal verification of queue flow control through model-checking	Granted
26	US	5999933	08/572759	Process and apparatus for collecting a data structure of a memory dump into a logical table	Granted
27	US	6000028	08/593286	Means and apparatus for maintaining condition codes in an unevaluated state	Granted
28	US	6009427	08/904828	Method and apparatus for distributed control of a database	Granted
29	US	6014673	08/853699	Simultaneous use of database and durable store in work flow and process flow systems	Granted
30	US	6014690	08/957531	Employing multiple channels for deadlock avoidance in a cache coherency protocol	Granted
31	US	6014712	08/856341	Network system	Granted
32	US	6026500	08/855081	Method and system for managing computer systems	Granted
33	US	6041306	08/821940	System and method for performing flexible workflow process execution in a distributed workflow management system	Granted
34	US	6058438	09/020190	Method and apparatus for performing high speed data transfers between a host memory and a geometry accelerator of a graphics machine	Granted
35	US	6078336	09/076380	Graphics memory system that utilizes look-ahead paging for reducing paging overhead	Granted
36	US	6119263	09/067459	System And Method For Transmitting Data	Granted
37	US	6138182	09/108933	Peripheral identification using bypassable impedances connected in series	Granted
38	US	6138193	09/103356	System for reducing noise in bus having plurality of first and second set of signals and a delay device for delaying propagation of second signals	Granted
39	US	6150679	09/042384	FIFO architecture with built-in intelligence for use in a graphics memory system for reducing paging overhead	Granted
40	US	6317738	09/277053	System and method for computing running and moving sequence functions in a database system	Granted
41	US	6389431	09/383107	Message-efficient client transparency system and method therefor	Granted
42	US	6405366	09/322672	Multi-Layered Software Application Interface Architecture	Granted
43	US	6411950	09/201624	Dynamic query expansion	Granted
44	US	6412010	09/335933	System For Implementing Network Protocol For Supporting Transmission Of Variable Number Of Application-Usable Objects Over Network As Single Network Transmittable Container Object And Re-Creation Of Application-Usable Objects Therefrom (as Amended)	Granted
45	US	6434555	09/490252	Method for transaction recovery in three-tier applications	Granted
46	US	6446051	09/248676	Document Transfer Systems	Granted
47	US	6476725	09/726737	VISUAL METER FOR PROVIDING A LONG-TERM INDICATION OF DYNAMIC PARAMETERS	Granted
48	US	6483811	09/129201	System and Method for Emulating a Distributed Network	Granted
49	US	6654877	09/644435	System and method for selectively executing computer code	Granted
50	US	6662364	09/434831	System and method for reducing synchronization overhead in multithreaded code	Granted
51	US	6675192	10/293975	Temporary halting of thread execution until monitoring of armed events to memory location identified in working registers	Granted
52	US	6687704	09/655779	Database model system and method	Granted
53	US	6691115	09/883067	System and method for purging database update image files after completion of associated transactions for a database replication system with multiple audit logs	Granted
54	US	6691142	09/756947	Pseudo random address generator for 0.75M cache	Granted

55	US	6711560	09/823340	Method of executing conflicting triggers in an active database	Granted
56	US	6715093	09/560194	Method for triggering an asynchronous event by creating a lowest common denominator clock	Granted
57	US	6721725	09/823337	Method of parallel trigger execution in an active database	Granted
58	US	6725188	09/541237	Method of cleanup after termination of a process under a simulated operating system	Granted
59	US	6725387	09/560904	Method and apparatus for causing computer system interconnection to be in the same state each time test code is executed	Granted
60	US	6728932	09/532539	Document clustering method and system	Granted
61	US	6745225	09/832742	Method and a device for enabling intercommunication among user processes in a communication management system regardless of the availability of the user processes	Granted
62	US	6745330	09/420195	Computer system having peripheral device look	Granted
63	US	6771270	09/697655	Graphics memory system that utilizes a variable width, stall-free object builder for coalescing and aligning read data	Granted
64	US	6823453	09/680740	Apparatus And Method For Implementing Spoofing-And Replay-Attack-Resistant Virtual Zones On Storage Area Networks	Granted
65	US	6845277	09/528524	Hardware monitoring process having on screen display capability	Granted
66	US	6952476	09/913003	Verification Of The Private Components Of A Public Key Cryptographic System	Granted
67	US	6961853	09/780370	Digital watermarks	Granted
68	US	6966035	09/955044	Frame for communicating expressive information for meetings	Granted
69	US	6973568	10/945644	Apparatus And Method For Implementing Spoofing-And Replay-Attack-Resistant Virtual Zones On Storage Area Networks	Granted
70	US	7036010	09/733475	Method and apparatus for a secure communications session with a remote system via an access-controlling intermediate system	Granted
71	US	7058605	10/052363	Document Transfer Systems	Granted
72	US	7085989	10/414705	Optimized testing of bit fields	Granted
73	US	7100031	10/107508	Detector and operational method for a firmware interface	Granted
74	US	7100034	10/444450	System for selecting another processor to be the boot strap processor when the default boot strap processor does not have local memory	Granted
75	US	7117302	11/068428	Boot techniques involving tape media	Granted
76	US	7139897	10/113074	Computer instruction dispatch	Granted
77	US	7176914	10/147763	System and method for directing the flow of data and instructions into at least one functional unit	Granted
78	US	7263191	10/270040	Method and apparatus for encrypting data	Granted
79	US	7269746	09/722889	Method of transmitting identification data from an option pack to a main unit before the option pack is fully powered	Granted
80	US	7278041	10/405474	Data processing system and method	Granted
81	US	7305375	10/420915	Method and system for distributed remote resources	Granted
82	US	7313668	10/768306	Immediate virtual memory	Granted
83	US	7315930	10/698182	Method of selecting heuristic class for data placement	Granted
84	US	7322026	10/792208	Scoring assertions	Granted
85	US	7330969	10/270037	Method and apparatus for data validation	Granted

86	US	7330976	10/820839	Access control system and method	Granted
87	US	7346660	10/372576	Method and system for managing and retrieving data	Granted
88	US	7389290	10/210331	System and method for scoring new messages based on previous responses within a system for harvesting community knowledge	Granted
89	US	7392149	10/685990	Automatic software testing	Granted
90	US	7398390	10/638007	Method and system for securing a computer system	Granted
91	US	7398532	09/517366	System and method for establishing a secure execution environment for a software process	Granted
92	US	7437715	10/119618	System and method for generating a set of robot commands based on user entry events in a user interface	Granted
93	US	7454787	10/756038	Secure direct memory access through system controllers and similar hardware devices	Granted
94	US	7516036	10/936616	System testing and methods therefor	Granted
95	US	7562353	10/439740	Methods and systems for transforming Java applications of behalf of another device	Granted
96	US	7634770	10/440154	Kernel module interface dependencies	Granted
97	US	7818297	10/403500	Logging synchronization	Granted

Foreign Patents and Foreign Patent Applications

No.	Country	Patent No.	App No.	Title	Status
1	DE	758187	95305563.9	Base Station	Granted
2	FR	758187	95305563.9	Base Station	Granted
3	GB	2381174	0222980.5	A Method Of Flexible Authorization Services With Multiple Independent Trusted Authorities	Granted
4	GB	2381172	0222974.8	A Mechanism, Using Identity-Based Encryption, To Permit The User To Check That A Claim Within A Web Page Is Legitimate	Granted
5	GB	758187	95305563.9	Base Station	Granted